

11/13



**Figure 1 SEQ ID NO:1**

**Sequence ID-1:** human interferon alpha 1 (GenBank 13128950)

MASPFALLMVLVLSCKSSCSLGCDLPETHSLDNRRTLMLLAQMRSRISPSSCLMDRHDFGF  
PQEEFDGNQFQKAPAI SVLHELIQQIFNLFTKDSSAAWDEDLLDKFCTELYQQLNDLEACV  
MQEERVGETPLMNADSLAVKKYFRRITLYLTEKKYSPCAWEVVRAEIMRSLSLSTNLQERL  
RRKE

**SEQ ID NO:2**

**Sequence ID-2:** human interferon alpha-2a (GenBank 2781226)

CDLPQTHSLGSRRTLMALLAQMRKISLFSCCLKDRHDFGFPQEEFGNQFQKAETIPVLHEMIQ  
QIFNLFSTKDSSAAWDETLLDKFYTELYQQLNDLEACVIQGVGVETPLMKEDSILAVRKYF  
QRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLRSK

**SEQ ID NO:3**

**Sequence ID-3:** human interferon alpha-2b (GenBank 30171279)

MCDLPQTHSLGSRRTLMALLAQMRRIISLFSCCLKDRHDFGFPQEEFGNQFQKAETIPVLHEMI  
QQIFNLFSTKDSSAAWDETLLDKFYTELYQQLNDLEACVIQGVGVETPLMKEDSILAVRKY  
FQRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLRSK

**SEQ ID NO:4**

**Sequence ID-4:** human interferon alpha 4 (GenBank 10835103)

MALSFSLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLAQMGRISHFSCLKDRHDFGFP  
EEEFDGHQFQKAQAI SVLHEMIQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQLNDLEACVI  
QEVGVEETPLMNEDSILAVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSLSFSTNLQKRLR  
RKD

**SEQ ID NO:5**

**Sequence ID-5:** human interferon alpha 5 (GenBank 4504597)

MALPFVLLMALVVLNC SICSLGCDLPQTHSLSNRRTLMIMAQMGRISPFSCLKDRHDFGFP  
QEEFDGNQFQKAQAI SVLHEMIQQTFNLFSTKDSSATWDETLLDKFYTELYQQLNDLEACM  
MQEVGVEDTPLMVDSILT VRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSLSANLQERL  
RRKE

**SEQ ID NO:6**

**Sequence ID-6:** human interferon alpha 6 (GenBank 11128015)

MALPFALLMALVVLSCSCKSSCSLD CDLPQTHSLGHRRRTM ALLAQMRRIISLFSCCLKDRHDFRF  
PQEEFDGNQFQKAQAI SVLHEVIQQTFNLFSTKDSSVAWDERLLDKLYTELYQQLNDLEAC  
VMQEWWVGGTPLMNEDSILAVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSSSRNLQE  
RLRRKE

**SEQ ID NO:7**

**Sequence ID-7:** human interferon alpha 7 (GenBank 10800142)

MARSFSLMAVLVLSYKSICSLGCDLPQTHSLRNRRALILLAQMGRISPFSCLKDRHEFRFP  
EEEFDGHQFQKTQAISVLHEMIQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQLNDLEACVI  
QEVGVEETPLMNEDFILAVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSFSTNLKKGLR  
RKD

**SEQ ID NO:8**

**Sequence ID-8:** human interferon alpha 8 (GenBank 4504599)

MALTFYLMVALVVL SYKSFS SLGCDLPQTHSLGNRRALILLAQMRRISPFSCLKDRHDFEFP  
QEEFDDKQFQKAQAI SVLHEMIQQTFNLFSTKDSSAALDETLLDEFYIELDQQLNDLEVLC  
QEVGVIESPLMYEDSILAVRKYFQRITLYLTEKKYSSCAWEVVRAEIMRSFSLSINLQKRLKS  
KE

FIG.-1A

2/13

SEQ ID NO: 9

Sequence ID-9: human interferon alpha 10 (GenBank 4504589)

MALSFSLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLGQMGRISPFSCFKDRHDFRIPQ  
EEFDGNQFQKAQAIISVLHEMIQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQLNDEACVIQ  
EVGVEETPLMNEDSILAVRKYFQRITLYLIERKYSPPCAWEVVRAEIMRSLSFSTNLQKRLRRK  
D

SEQ ID NO: 10

Sequence ID-10: human interferon alpha 13 (GenBank 13128966)

MASPFALLMALVVLCKSSCSLGCDLPETHSLDNRRTLMLLAQMSRISPSSCLMDRHDFGF  
PQEEDGNQFQKAQAIISVLHELIQQIFNLFTKDSSAAWDEDLLDKFCTELYQQLNDEACV  
MQEERVGETPLMNADSI~~L~~AVKKYFRRITLYL~~E~~KKYSPPCAWEVVRAEIMRSLSLSTNLQERL  
RRKE

SEQ ID NO: 11

Sequence ID-11: human interferon alpha 14 (GenBank 4504591)

MALPFALMMAVVLCKSSCSLGCNLSQTHSLNRRTLMLMAQMRRISPFSCLKDRHDFE  
FPQEEFDGNQFQKAQAIISVLHEMMQQTFNLFSTKNSSAAWDETLLDKFYIELFQQMNDLEA  
CVIQEVGVEETPLMNEDSILAVKKYFQRITLYLMEKKYSPPCAWEVVRAEIMRSFSFSTNLQK  
RLRRKD

SEQ ID NO: 12

Sequence ID-12: human interferon alpha 16 (GenBank 4504593)

MALSFSLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLAQMGRISHFSCLKDRYDFGFP  
QEVDGNQFQKAQAIASFHEMIQQTFNLFSTKDSSAAWDETLLDKFYIELFQQLNDEACVT  
QEVGVEEIALMNEDSILAVRKYFQRITLYLMGKKYSPPCAWEVVRAEIMRSFSFSTNLQKGLR  
RKD

SEQ ID NO: 13

Sequence ID-13: human interferon alpha 17 (GenBank 10880985)

MALSFSLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLAQMGRISPFSCLKDRHDFGLP  
QEEFDGNQFQKTQAISVLHEMIQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQLNNEACVI  
QEVGMEETPLMNEDSILAVRKYFQRITLYL~~E~~KKYSPPCAWEVVRAEIMRSLSFSTNLQKILR  
RKD

SEQ ID NO: 14

Sequence ID-14: human interferon alpha 21 (4504595)

MALSFSLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLAQMGRISPFSCLKDRHDFGFP  
QEEFDGNQFQKAQAIISVLHEMIQQTFNLFSTKDSSATWEQSLLEKFSTELNQQLNDEACV  
IQEVGVEETPLMNVD~~S~~ILAVKKYFQRITLYL~~E~~KKYSPPCAWEVVRAEIMRSFSLSKIFQERLR  
RKE

SEQ ID NO: 15

Sequence ID-15: human interferon beta (GenBank 124469), signal peptide deleted

MSYNLLGFLQRSSNFQCQKLLWQLNGRLEYCLKDRMNF~~D~~IPEEIKQLQQFQKEDAALTIYE  
MLQNIAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSLHLKR  
YYGRILHYLKAKEYSHCAWTIVRVEILRNFYFINRLTGYLRN

SEQ ID NO: 16

Sequence ID-16: human interferon kappa (GenBank 14488028)

MSTKPDMIQKCLWLEILMGIFIAGTLSDCNLLNVHLRRVTWQNLRHLSSMSNSFPVECLRE  
NIAFELPQEFLQYTQPMKRD~~I~~KKAFYEMSLQAFNIFSQHTFKY~~W~~KERHLKQIQLDQQAEY

FIG.-1B

3/13

belongs  
on  
Fig  
1B

[ LNQCLEEDEENENEDMKEMKENEMKPSEARVPQLSSLELRRYFHRIDNFLKEKKYSDCAWEI  
VRVEIRRCLYYFYKFTALFRRK ]

SEQ ID NO: 17

Sequence ID-17: human interferon tau (GenBank 28882045)

MIIKHFFGTVLVLLASTTIFSLDLKLIIFQQQRQVNQESLKLLNKLQTLSIQQCLPHRKNFLPQK  
SLSPQQYQKGHTLAILHEMLQQIFSLFRANISLDGWEENHTEKFILQLHQHQLEYLEALMGLE  
AEKLSGTLGSDNLRLQVKMYFRRIHDXLENQDYSTCAWAIVQVEISRCLFFVFSLTEKLSKQ  
GRPLNDMKQELTTEFRSPR

SEQ ID NO: 18

Sequence ID-18: human interferon omega (GenBank 4504605)

MALLFPPLAALVMTSYSPVGSLGCDLPQNHLRSRNTLVLLHQMRRIISPFLCLKDRRDFRFP  
QEMVKGSQQLQKAHVMSVLHEMLQQIFSLFHTERSSAAWNMTLLDQLHTGLHQQLQHLET  
LLQVVGEGESAGAISSPALTLRRYFQGIRVYLKEKKYSDCAWEVVRMEIMKSLFLSTMQE  
RLRSKDRDLGSS

SEQ ID NO: 19

Sequence ID-19: interferon beta variant #2 L5Q in C17S background

MSYNQLGFLQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEKQLQQFQKEDAALTIYE  
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSLHLKR  
YYGRILHYLKAKEYSHCAWTIVRVEILRNFYFINRLTGYLRN

SEQ ID NO: 20

Sequence ID-20: interferon beta variant #7 L5Q/F8E in C17S background

MSYNQLGELQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEKQLQQFQKEDAALTIYE  
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSLHLKR  
YYGRILHYLKAKEYSHCAWTIVRVEILRNFYFINRLTGYLRN

SEQ ID NO: 21

Sequence ID-21: interferon beta variant #15 L5Q/F8E/F111N in C17S background

MSYNQLGELQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEKQLQQFQKEDAALTIYE  
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDNTRGKLMSSLHLK  
RYYGRILHYLKAKEYSHCAWTIVRVEILRNFYFINRLTGYLRN

SEQ ID NO: 22

Sequence ID-22: interferon beta variant #23 L5Q/F8E/L116E in C17S background

MSYNQLGELQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEKQLQQFQKEDAALTIYE  
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDNTRGKEMSSLHLK  
RYYGRILHYLKAKEYSHCAWTIVRVEILRNFYFINRLTGYLRN

SEQ ID NO: 23

Sequence ID-23: interferon beta variant #36 F8E/F111N/L116E in C17S background

MSYNLLGELQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEKQLQQFQKEDAALTIYE  
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDNTRGKEMSSLHLK  
RYYGRILHYLKAKEYSHCAWTIVRVEILRNFYFINRLTGYLRN

SEQ ID NO: 24

Sequence ID-24: interferon beta variant #39 L5Q/F8E/F111N/L116E in C17S background

MSYNQLGELQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEKQLQQFQKEDAALTIYE  
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDNTRGKEMSSLHLK  
RYYGRILHYLKAKEYSHCAWTIVRVEILRNFYFINRLTGYLRN

PIG.- 1C

413

SEQ ID NO: 25

Sequence ID-25: interferon beta variant #64 L5Q/F8E/L47K/F111N/L116E/L120R in C17S background

MSYNQLGELQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEIKQKQQFQKEDAALTIYE  
MLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDNTRGKEMSSRHLK  
RYYGRILHYLKAKEYSHCAWTIVRVEI LRNFYFINRLTGYLRN

SEQ ID NO: 26

Sequence ID-26: interferon kappa variant #4\_G7 V8N/W15R/Y48Q/M52N/F76S/Y78A/I89T  
LDCNLLNNHLLRRVTRQNLRLSSMSNSFPVECLRENIAFELPQEFLQQTQPNKRDIIKKAFYE  
MSLQAFNIFSQHTSKAWKERHLKQIQTGLDQQAEYLNQCLEEDEDENENEDMKE~~M~~KENEMKP  
SEARVPQLSSLELRRYFHRIDNFLKEKKYSDCAWEIVRVEIRRCLYYFYKFTALFRRK

SEQ ID NO: 27

Sequence ID-27: interferon kappa variant #46\_E2  
W15R/I37N/Y48Q/M52N/F76S/Y78A/I89T/ Y97D/V161A/C166A/Y168S/Y171T  
LDCNLLNVHLRRVTRQNLRLSSMSNSFPVECLRENNAFELPQEFLQQTQPMKRDIIKKAFYE  
EMSLQAFNIFSQHTSKAWKERHLKQIQLDQQAEYLNQCLEEDEDENENEDMKE~~M~~KENEMKP  
SEARVPQLSSLELRRYFHRIDNFLKEKKYSDCAWEIVRAEIRRALSYFTKFTALFRRK

SEQ ID NO: 28

Sequence ID-28: interferon kappa variant #47\_C4 W15R/F76S/Y78A  
LDCNLLNVHLRRVTRQNLRLSSMSNSFPVECLRENIAFELPQEFLQYTQPMKRDIIKKAFYE  
MSLQAFNIFSQHTSKAWKERHLKQIQLDQQAEYLNQCLEEDEDENENEDMKE~~M~~KENEMKP  
SEARVPQLSSLELRRYFHRIDNFLKEKKYSDCAWEIVRVEIRRCLYYFYKFTALFRRK

SEQ ID NO: 29

Sequence ID-29: interferon kappa variant #23\_C10 I37N/Y48Q/M52N/F76S/Y78A/Y97D  
LDCNLLNVHLRRVTRQNLRLSSMSNSFPVECLRENNAFELPQEFLQQTQPMKRDIIKKAFYE  
EMSLQAFNIFSQHTSKAWKERHLKQIQLDQQAEYLNQCLEEDEDENENEDMKE~~M~~KENEMKP  
SEARVPQLSSLELRRYFHRIDNFLKEKKYSDCAWEIVRVEIRRCLYYFYKFTALFRRK

SEQ ID NO: 30

Sequence ID-30: interferon kappa variant #40\_A10 W15R/I37N/F76S/Y78A  
LDCNLLNVHLRRVTRQNLRLSSMSNSFPVECLRENNAFELPQEFLQYTQPMKRDIIKKAFYE  
EMSLQAFNIFSQHTSKAWKERHLKQIQLDQQAEYLNQCLEEDEDENENEDMKE~~M~~KENEMKP  
SEARVPQLSSLELRRYFHRIDNFLKEKKYSDCAWEIVRVEIRRCLYYFYKFTALFRRK

FIG. - 1D

Annotated Sheet  
Showing Changes

5/13

Figure 2-

Seq.  
TDD

31 1: 24 CDLPETHSLNRRTLMLLAQMSRISPSSCLMDRHDGFPQEEFDGNQFQKAPAI SVLHEL 83  
32 2a: 2 CDLPQTHSLGSRRTEMLLAQMRKISLFSCLKDRHDGFPQEEF-GNQFQKAETIPV LHEM 60  
33 2b: 2 CDLPQTHSLGSRRTLMLLAQMRRISLFSCLKDRHDGFPQEEF-GNQFQKAETIPV LHEM 60  
34 4: 24 CDLPQTHSLGNRRALILLAQMGRISHFSCLKDRHDGFPPEEEFDGHQFQKAQAI SVLHEM 83  
35 5: 24 CDLPQTHSLSNRRTLMIMAQMGRISPFSCLKDRHDGFPQEEFDGNQFQKAQAI SVLHEM 83  
36 6: 24 CDLPQTHSLGHRRTMMLLAQMRRIISLFSCLKDRHDFRFPQEEFDGNQFQKAEAI SVLHEV 83  
37 7: 24 CDLPQTHSLRNRRALILLAQMGRISPFSCLKDRHEFRFPEEEFDGHQFQKTQAIS VLHEM 83  
38 8: 24 CDLPQTHSLGNRRALILLAQMRRISPFSCLKDRHDFEFPQEEFDDKQFQKAQAI SVLHEM 83  
39 10: 24 CDLPQTHSLGNRRALILLGQMGRISPFSCLKDRHDFRIPQEEFDGNQFQKAQAI SVLHEM 83  
40 13: 24 CDLPETHSLNRRTLMLLAQMSRISPSSCLMDRHDGFPQEEFDGNQFQKAPAI SVLHEL 83  
41 14: 24 CNLSQTHSLNNRTLMLMAQMRRISPFSCLKDRHDFEFQEEFDGNQFQKAQAI SVLHEM 83  
42 16: 24 CDLPQTHSLGNRRALILLAQMGRISHFSCLKDRYDFGFPQEVDGNQFQKAEAI SVAFHEM 83  
43 17: 24 CDLPQTHSLGNRRALILLAQMGRISPFSCLKDRHDFGLPQEEFDGNQFQKTQAIS VLHEM 83  
44 21: 24 CDLPQTHSLGNRRALILLAQMGRISPFSCLKDRHDGFPQEEFDGNQFQKAQAI SVLHEM 83

31 1: 84 IQQIFNLFTTKDSSAAWDEDLLDKFCTELYQQNDLEACVMQEERVGETPLMNADSI LAV 143  
32 2a: 61 IQQIFNLFSTKDSSAAWDETLLDKFYTELYQQNDLEACVIQGVGVTTPLMKEDSI LAV 120  
33 2b: 61 IQQIFNLFSTKDSSAAWDETLLDKFYTELYQQNDLEACVIQGVGVTTPLMKEDSI LAV 120  
34 4: 84 IQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQNDLEACVIQEVGVEETPLMNEDSI LAV 143  
35 5: 84 IQQTFNLFSTKDSSATWDETLLDKFYTELYQQNDLEACMMQEVGVETPLMNVDI LTV 143  
36 6: 84 IQQTFNLFSTKDSSAWDERLLDKLYTELYQQNDLEACVMQEVVGGTPLMNEDSI LAV 143  
37 7: 84 IQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQNDLEACVIQEVGVEETPLMNEDFIL AV 143  
38 8: 84 IQQTFNLFSTKDSSAALDETLLDEFYIELDQQNDLEVLCQEVGVIESPLMYEDSI LAV 143  
39 10: 84 IQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQNDLEACVIQEVGVEETPLMNEDSI LAV 143  
40 13: 84 IQQIFNLFTTKDSSAAWDEDLLDKFCTELYQQNDLEACVMQEERVGETPLMNADSI LAV 143  
41 14: 84 MQQTFNLFSTKNSSAAWDETLLLEKFYIELFQQMDLEACVIQEVGVEETPLMNEDSI LAV 143  
42 16: 84 IQQTFNLFSTKDSSAAWDETLLDKFYIELFQQNDLEACVTQEVGVEEIALMNEDSI LAV 143  
43 17: 84 IQQTFNLFSTEDSSAAWEQSLLEKFSTELYQQNNLEACVIQEVGMEETPLMNEDSI LAV 143  
44 21: 84 IQQTFNLFSTKDSSATWEQSLLEKFSTELNQQNDMEACVIQEVGVEETPLMNVDI LAV 143

31 1: 144 KKYFRRITLYLTEKKYSPCAWEVVRAEIMRSLSLSTNLQERLRRKE 189  
32 2a: 121 RKYFQRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLRSK 166  
33 2b: 121 RKYFQRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLRSK 166  
34 4: 144 RKYFQRITLYLTEKKYSPCAWEVVRAEIMRSLSFSTNLQKRLRRKD 189  
35 5: 144 RKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSLSANLQERLRRKE 189  
36 6: 144 RKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSSRNLQERLRRKE 189  
37 7: 144 RKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSFSTNLKKGLRRKD 189  
38 8: 144 RKYFQRITLYLTEKKYSSCAWEVVRAEIMRSFSLSINLQKRLKSKE 189  
39 10: 144 RKYFQRITLYLIERKYSPCAWEVVRAEIMRSLSFSTNLQKRLRRKD 189  
40 13: 144 KKYFRRITLYLTEKKYSPCAWEVVRAEIMRSLSLSTNLQERLRRKE 189  
41 14: 144 KKYFQRITLYLMEKKYSPCAWEVVRAEIMRSFSFSTNLQKRLRRKD 189  
42 16: 144 RKYFQRITLYLMGKKYSPCAWEVVRAEIMRSFSFSTNLQKGLRRKD 189  
43 17: 144 RKYFQRITLYLTEKKYSPCAWEVVRAEIMRSLSFSTNLQKILRRKD 189  
44 21: [144 KKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSLSKIFQERLRRKE 189] - Font size changed to smaller size

(0|13)

Figure 3-

seq

ID

45 IFNK: ldcnllnvhlrrvtwqnlrhllssmsnsfpveclreniafelpqeflqytq  
46 1AU1: MSYNLLGFLQRSSNFQCQKLLWQLNGRLEY-CLKDRMNFDPPEEIKQLQQ  
47 1B5L: CYLSRKLMNDAR-ENLKLLDRMNRLSPHSCLQDRKDFGLPQEMVEGDQ  
48 1ITF: CDLPQTHSLGSR-RTLMLLAQMRKISLFCLKDRHDFGPQE-EFGNQ

45 IFNK: pmkrdikkafyemslqafnifsqht--fkywkerhkqiqigldqqaeayln  
46 1AU1: FQKEDAALTIYEMLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLK  
47 1B5L: LQKDQAFPVLYEMLQQSFNLFYTEHSSAAWDTLLEQLCTGLQQQLDHLD  
48 1ITF: FQKAETIPVLHEMIQQIFNLFKDSSAAWDETLLDKFYTELYQQLNDLE

45 IFNK: qcleedenenedmkemkenemkpsearvpqlsslelrryfhridnf1kek  
46 1AU1: TV-----LEEKLEKEDFTRGKLMSSLHLKRYYGRILHYLKAK  
47 1B5L: TC-----RG|MDPIVTVKKYFQGIYDYLQEK  
48 1ITF: AC-----VIQGVGVETPLMKEDSILAVRKYFQRITLYLKEK

45 IFNK: kysdcaweivrveirrclyyfykftalfrk  
46 1AU1: EYSHCAWTIVRVEILRNFYFINRLTGYLRN  
47 1B5L: GYSDCAWEIVRVEMMRALTNSTLQKRLTK  
48 1ITF: KYSPCAWEVVRAEIMRSFSLSTNLQESLRSKE

FIG.-3

7/13

Figure 4

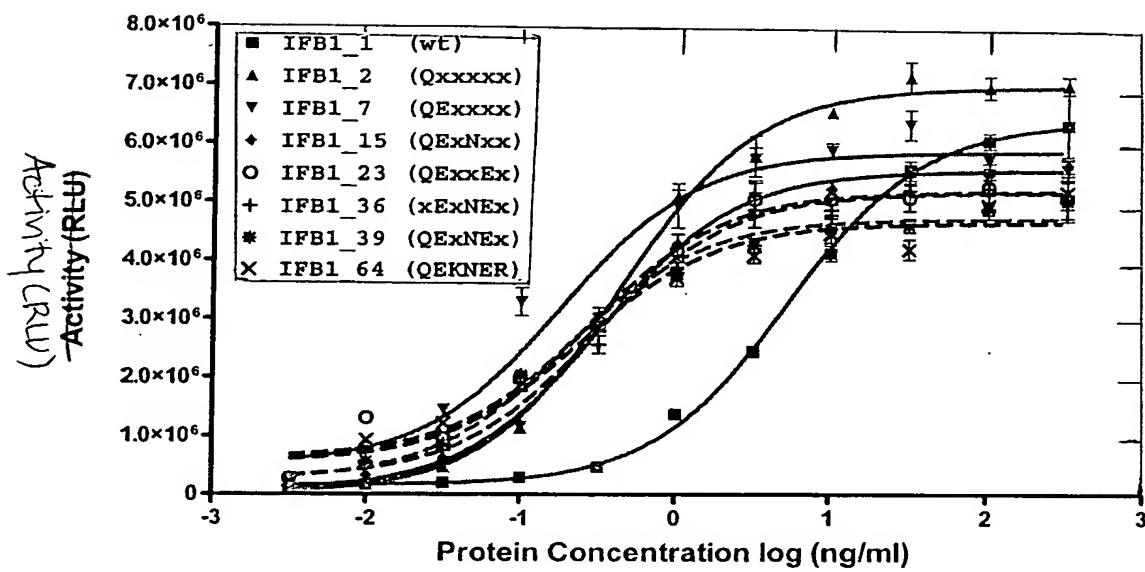


FIG.-4

FIG.-4 has been enlarged to fit page, oriented as Landscape

Annotated Sheet  
Showing Changes

8/13

Figure 5-

	1	2	3	4	5	6	7	8	9	10	11	12
A												
B												
C					*			*				
D					*							
E					*							
F		*										
G												
H												

FIG.-5

FIG.-4 appears  
here

FIG.-4

Figure 6-

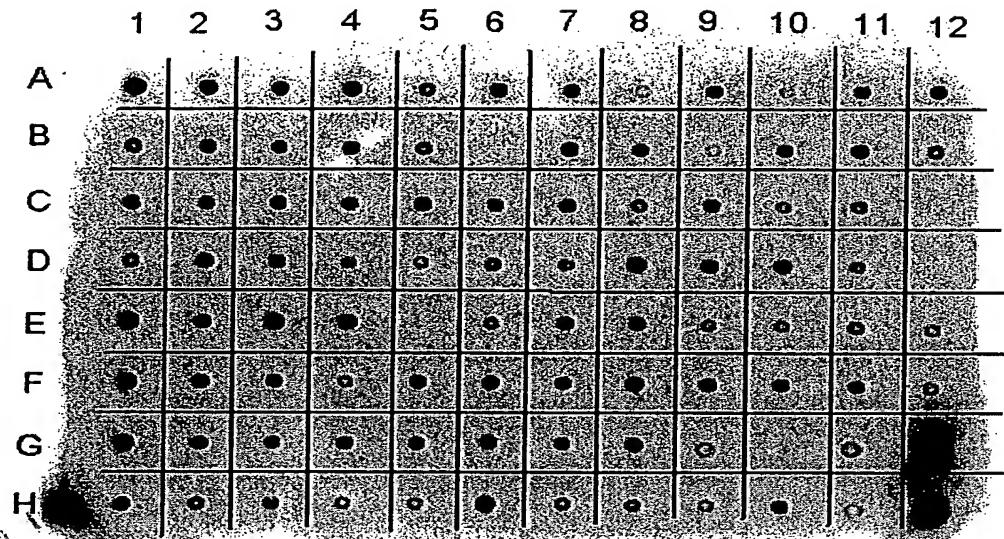


FIG.- 6

FIG.- 6 appears on page 8/13 with  
FIG.- 5

9/13

Figure 7-

IK1 RETEST PLATE #1  
WESTERN #3

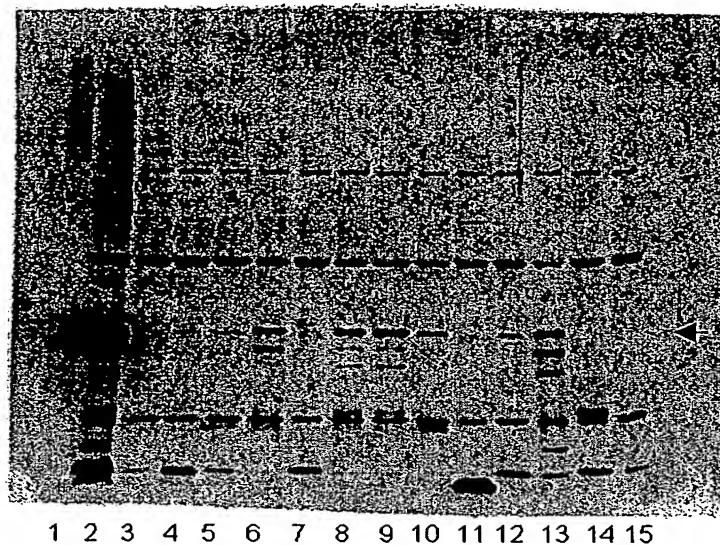


FIG. - 7

FIG. - 8 appears  
here

FIG. - 8

Annotated Sheet  
Showing Changes

Figure 8

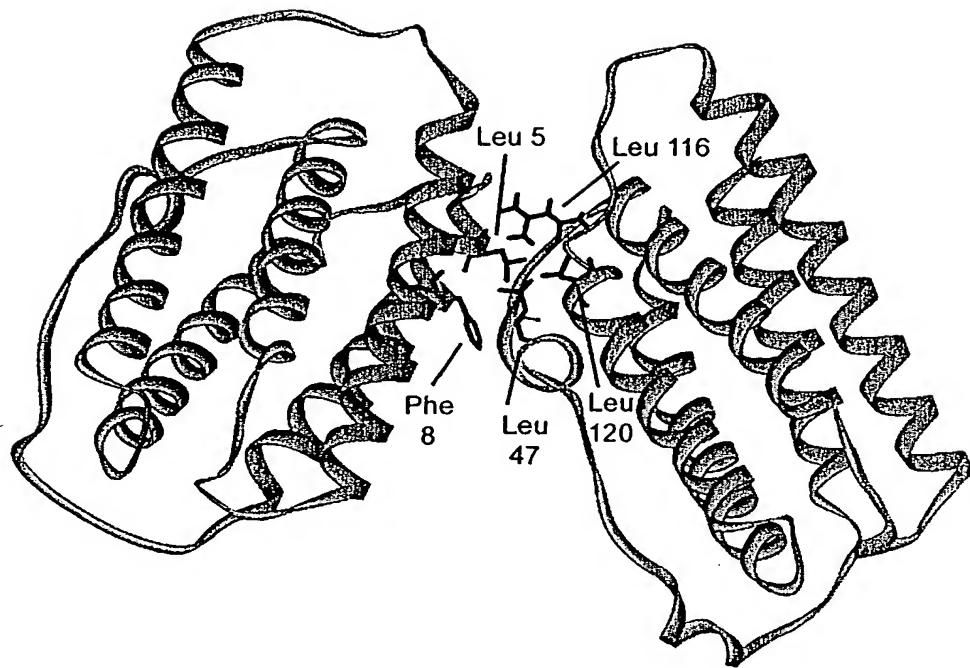


FIG.-8

FIG.-8 appears on page 9/13 below  
FIG.-7.

Annotated Sheet  
Showing Changes

10/13

Figure 9

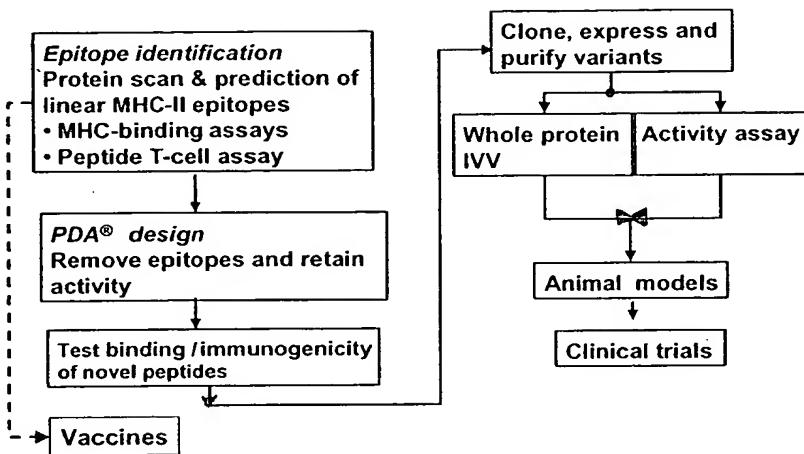


FIG.\_9

FIG.\_10 appears  
here

Figure 10

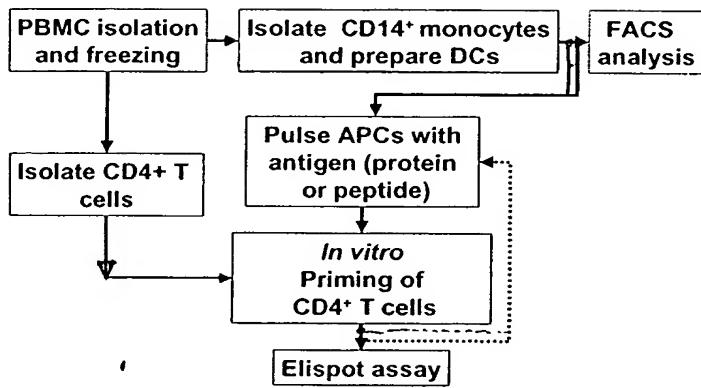


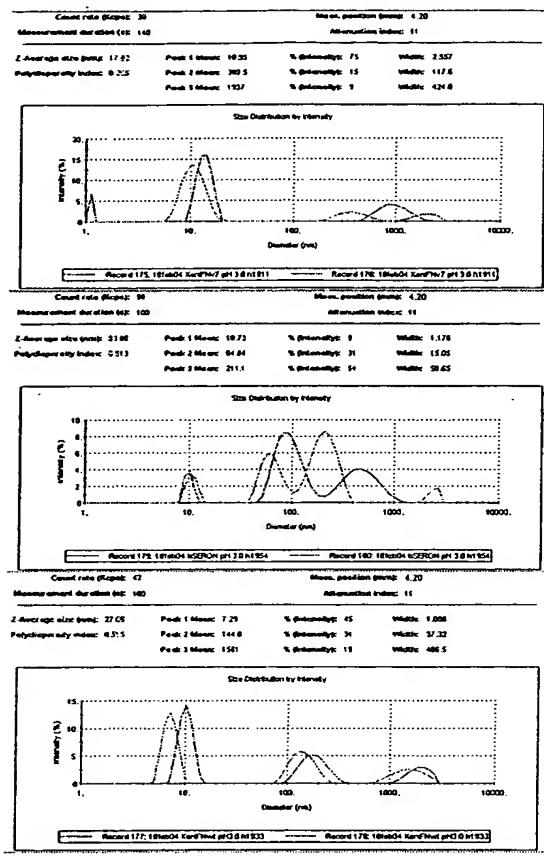
FIG.-10

FIG.-10 appears on page 10/13 below FIG.-9 and is enlarged.

Annotated Sheet  
Showing Changes

11/13

Figure 11



Now FIG. 11A and is enlarged

Now FIG. 11B and is enlarged

Now FIG. 11C - enlarged and appears on page 12/13.

Annotated Sheet  
Showing Changes

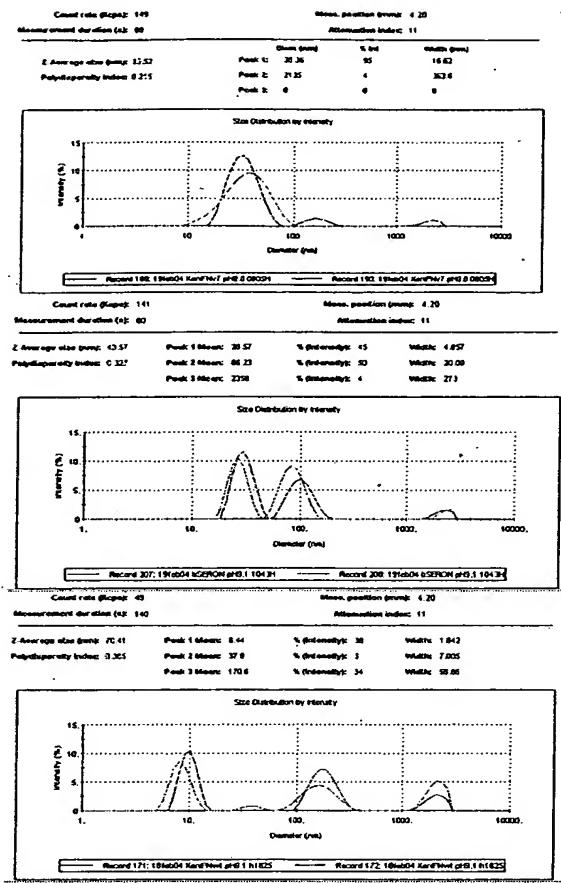


FIG.-12A - enlarged and appears on page 12/13

FIG.-12B

enlarged and appears on page 13/13

FIG.-12C

enlarged and appears on page 13/13 below FIG.-12B

Figure 12